					- 1	J 1			7 01		γ	TIL OTTOON	UASE009
Sample ID:	1		of logving in	UASE030	UASE001	UASE002	UASE003	UASE004	USSE005	UASE006	UASE007	UASE008	UASEOUS
CLP (b)	Superfund Chemical Data Matrix (SCDM)	Superfund Chemical Data Matrix (SCDM)	3 bask grov	Lower Ross Basin Drainage upstream of Grand Mogul Mine	Animas River downstream of the confluence with Cement Creek	Cement Creek immediately upstream of the confluence with the Animas River	Animas River upstream of the confluence with Cement Creek	Cement Creek downstream of the confluence with the South Fork of Cement Creek	South Fork of Cement Creek	Cement Creek downstream of the American Tunnel and upstream of the confluence with the South Fork of Cement Creek	Discharge from the American Tunnel Immediately above confluence with Cement Creek	Cement Creek upstream of the American Tunnel	Cement Creek downstream o the confluence with the North Fork of Cement Creek
Analytes	RDSC (mg/kg)	CRSC (mg/kg)	MCUMCUC mg/lg	(<u>Background)</u> (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminum	-	1	47100	15700	6860	7030	8570	9570	8370	7030	13400	13700	4940
Antimony		. /	-	1.2 U	2.1 UJ	1.4 UJ	1.3 UJ	1.3 UJ	1.3 UJ	2.8 J 💥	5 UJ	1.7 UJ	2.7 UJ
Arsenic		. \	94.5	31.5 J+	45.3 J	34.1 J	5.9 J	20.3 J	11.6 J	50.2 J	17.7 J	33.3 J	15.2 J
Barium		- /	282.6	94.2 J+	559 J ☆ ¥	210 J	108 J	97.3	78.8	146	24.9 UJ	92.7	71.6
Beryllium	-	1	4.2	1.4 J+	1 UJ	0.72 U	1 J+	0.65 U	0.66 J+	0.95 U	2.5 U	1.1 J+	1.4 UJ
Cadmium		/-	31.2	10.4 J 3/. 2	1 UJ	0.72 U	5.8 J	0.9	0.64 UJ	2.9	2.5 U	1.3 J	1.4 UJ
Calcium		1.	5970	1990	1100	1010	2560	1530	1230	1420	2490 U	1660	1370 U
Chromium		1.	24	8	6.6	6.4	6.5	7	6.2 J	8.4	5 U	7.6 J	6.4 J
Cobalt		/ -	61.5	20.5	3.9 J	4.3 J	10.9 J	11.8	6.5	3.9	2.5 U	16.5	6.8
Copper		-	3720	1240 J+ 3724	48.7 J	53 J	119 J	86.5	65 J	279	28.1	209 J	124 J
Iron	- /	-	2 3600	71200 213600	78100	68800	20800	57600	34800	114000	238000 ☆ 🔏	37300	159000
Lead	- /		4440	1480 J 4440	459	322	612	726 J	145	5720 J ☆	217 J	711	341
Magnesium	- /		34500	11500	3030	4080	5610	6070	1460	3810	913	8730	1370 U
Manganese	- /		19800	6600 19800	333	506	6750	1530	839 J	1340	336	4130 J	2010 J
Nickel	-/		35.1	11.7 J	3.4 J	4 J	8.2 J	4.4	4.2 J	3.8	1.3	8 J	2.2 J
Potassium			1926	642 J+	1700 J+	889 J+	. 745 J+	751 J+	902 J+	1560 J+	231 J+	825 U	1370 U
Selenium	1-			3 U	1.6 J	0.81 J	0.099 J	3.3 UJ	3.2 UJ	4.8 UJ	12.4 UJ	4.1 UJ	6.9 UJ
Silver	1-		3.6	1.2 J	4.5 J+ ☆	.2.5 J+	1.5 J+	1.7 J+	0.64 UJ	12.1 J+ ☆	2.5 UJ	2.1 J	4 J 🗶
Sodium	1 -		1800	600 UJ	1040 U	723 U	641 U	62.3 J+	640 U	118 J+	44.5 J+	825 U	1370 U
Thallium	1 -		1.32	0.44 J-	1 U	0.72 U	0.64 U	0.39 J+	0.64 UJ	0.6 J+	2.5 UJ	0.83 UJ	1.4 UJ
Vanadium	-	-	122.7	40.9	49.7	44.8	30.6	47.3	52.2	47.7	41.8	64.1	27.3
Zinc	1	-	4500	1500 J 4500	205 J	199 J	1470 J	261 J	145 J-	815 J	269 J	289 J-	242 J-

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Sample ID:	MAR NEW YORK SEASON AND SEASON AN	local state persons	DESCRIPTION OF	UASE030	UASE010	UASE011	UASE012	UASE013	UASE014	UASE015	UASE016	UASE017	UASE018
ocation:	Superfund Chemical Data Matrix (SCDM)	Superfund Chemical Data Matrix (SCDM)		Lower Ross Basin Drainage upstream of Grand Mogul Mine		North Fork of Cement Creek downstream of	North Fork of Cement Creek upstream of the Gold King 7 Level Mine	Cement Creek upstream of the confluence with the North Fork of Cement Creek	Cement Creek downstream of Red and Bonita Mine	Drainage channel adjacent to county road below Red and Bonita	Cement Creek upstream of Red and Bonita Mine	Cement Creek downstream of wetland that channels Mogul Mine drainage	Cement Creek upstream of wetland that contains Mogul Mine drainage
	RDSC (mg/kg)	CRSC (mg/kg)	MCL/MCLG (mg/kg)	(Background) (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Analytes Aluminum		(44.45)	47100	15700	0220	2020	10900	4520	3850	4670	8140	8100	13100
Antimony		1	47100	1.2 U	9330 1.3 UJ	2.8 UJ	1.3 UJ	2.8 UJ	3 UJ	2.3 J	3.2 UJ	1.3 UJ	1.3 UJ
Arsenic			94.5	31.5 J+	26.2 J	36.7 J	17.3 J	20.5 J	24.5 J	23.2 J	57.5 J	17.7 J	28.1 J
Barium		-	282.6	94.2 J+	51.8	30.7	102	61.9	36.1	46.5	200	121	90.8
Beryllium		- X	4.2	1.4.J+	0.64 UJ	1.4 UJ	0.63 U	1.4 UJ	1.5 UJ	1.1 UJ	1.6 UJ	0.63 U	0.73 J+
Cadmium		(-)	31.2	10.4 J	0.64 UJ	0.11	0.63 U	1.4 UJ	1.5 UJ	2.4 J	1.6 UJ	0.63 U	2
Calcium		1 -	5970	1990	1710	1380 U	1890	1410 U	1500 U	1130	1940	1740	2020
Chromium		/ - \	24	8	9.1 J	5.1 J	8	4.3 J	6.1 J	4 J	11.9 J	6.9	9
Cobalt		/ . \	61.5	20.5	4.3	2.8 U	10.4	6	3 U	2.2 U	23.7	13.2	11.2
Copper	- /	- \	3720	1240 J+	42.8 J	113 J	73.1	84 J	147 J	112 J	250 J	63.6	193
Iron	- /		213600	71200	18200	397000 ☆ 🎍	37100	203000	218000 ☆ 🚜	442000 ☆ ❖	65400	38100	35000
Lead	/	_	4440	1480 J	294	136	532 J	362	773	457	1460	379 J	543 J
Magnesium	-/	-	34500	11500	8680	1380 U	5380	1410 U	1500 U	1120 U	2260	5830	8970
Manganese	-/	-	19800	6600	624 J	156 J	675	1910 J	489 J	239 J	2360 J	1420	3650
Nickel	1-		35.1	11.7 J	4.1 J	1.4 UJ	7.1	1.6 J	2 Ј	1.1 UJ	12.3 J	6.3	5.2
Potassium	/-	7 <u>4</u> 7	1926	642 J+	638 U	1380 U	1000 J+	1410 U	1500 U	1120 U	1580 U	440 J+	501 J+
Selenium	/ -		-/	3 U	3.2 UJ	6.9 UJ	3.1 UJ	7.1 UJ	7.5 UJ	5.6 UJ	7.9 UJ	3.1 UJ	3.3 UJ
Silver	/ -	-	3.6	1.2 J	0.88 J	1.4 UJ	1.3 J+	2.3 J	8.5 J ☆	3.9 J ☆	1.6 UJ	1.3 J+	1.7 J+
Sodium	7 -		1800	600 UJ	. 638 U	1380 U	99.3 J+	1410 U	1500 U	1120 U	1580 U	30.8 J+	21.9 J+
Thallium	-	-	1.32	0.44 J-	0.64 UJ	1.4 UJ	0.35 J+	1.4 UJ	1.5 UJ	1.1 UJ	1.6 UJ	0.3 J+	0.4 J+
Vanadium		-	122.7	40.9	29.1	27.8	49	29.7	34	31.7	62	46.3	32.2
Zinc	_	1-1	4500	1500 J	145 J-	44.1 J-	73.8 J	240 J-	465 J-	1040 J-	378 J-	184 J	332 J

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TABLE 3
Sediment Results
(Continued)

							(Continued 1			TIA CITADAD	UASE032	UASE033		
						UASE020	UASE021	UASE022	UASE023	UASE024	UASE029	UASE032			
nple ID:	Superfund Chemical Data Matrix (SCDM)	Superfund Chemical Data Matrix (SCDM)	/	UASE030 Lower Ross Basin Drainage upstream of Grand Mogul Mine	UASE019 Mogul Mine drainage (in wetland)	Cement Creek upstream of Mogul Mine	Cement Creek		Cement Creek upstream of Mogul North Mine and downstream of confluence with Lower Ross	Cement Creek downstream of Queen Anne Mine and upstream of confluence with Lower Ross	Animas River Below Silverton	Animas River downstream of the confluence with Mineral Creek	Mineral Creek upstream of confluence with the Anima River		
	RDSC	CRSC	MCL/MCLG	(Background)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(nig/kg)	(mg/kg)		
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/ag)			图·数字用是1985年2月19年1	11500	12300	3000	28200		
	(mg/kg)	(mg/kg)				12200	13600	6720	3020	1.7 U	1.6 UJ	1.3 UJ	3.5 UJ		
alytes		/	47100	15700	5960	1.4 UJ	1.3 U	6.8 U	1.7 J	49.4 J+	27.3 J	14.2 J	26.7 J		
ıminum		N - /	-	1.2 U	1.6 UJ	36.8 J	25.8 J+	42.6 J+	45.6 J+	205 J+	261 J	79.3 J	159		
timony		1	94.5	31.5 J+	62.5 J	147	74.3 J+	119 J+	264 J+ 🔐	1.3 J+	0.89 J+	0.75 J+	1.7 UJ		
enic		1	282.6	94.2 J+	121	1.4 J+	1.3 J+	3.4 UJ	1.3 J+	7 J	2 J	0.97 J	1.7 UJ		
rium			4.2	1.4 J+	0.8 U	7.4	6 J	3.4 UJ	6 J	1280	2010	2050	1950		
ryllium	•	1	31.2	10.4 J	1.4		1310	3380 U	718 U		5.6	6.9	5.1 J		
dmium	•	1	5970	1990	804 U	1110	7.1	19.7	6.2	8.2	12.3 J	11 J	18.6		
lcium		/	24	8	8.5	9.6	12.3	19.7	15.3	15.8	167 J	201 J	216 J		
romium	3.	V - \	61.5	20.5	5.4	12.9	516 J+	303 J+	424 J+	294 J+	58100	26000	62200		
balt		4 -	3720	1240 J+	177	546	37200	141000	5150	27100	734	187	210		
pper	- /		213600	71200	116000	31900	481 J	668 J	2030 J	754 J	4270	3730	2280		
n	- /	-	4440	1480 J	546 J	779 J	7200	3380 U	1090	5670	2710	1160	897 J		
ad	- /	-	34500	11500	3260	5340	4710	1180	7960	11500	5.2 J	5.9 J	6 J		
agnesium	-/-	-	19800	6600	1130	5130	10.3 J	5.9 J	7.7 J	7.8 J	1260 J+	574 U	1740 U		
anganese	-/		35.1	11.7 J	4.5	6.9	664 U	3380 U	718 U	1210 J+	0.52 J	0.45 J	8.7 UJ		
ckel		-	1926	642 J+	842 J+	648 J+	3.3 U	17 U	3.6 U	4.3 U	2.8 J+	9.67 U	1.7 UJ		
tassium	/-	-	1920	3 U	4 UJ	3.5 UJ	2 J	27.1 J ☆ №	11.8 J ☆ X		814 U	674 U	1740 U		
lenium	/-	-	3.6	1.2 J	5.1 J+ ☆ 💥	2.8 J+	664 UJ	3380 U	718 UJ	855 UJ	0.81 U	3.67 U	1.7 UJ		
lver	1 -		1800	600 UJ	65.3 J+	29.5 J+	0.41 J-	_0.31 J-	0.77	0.88	41.1	36.1	31.3		
odium	1 / -			0.44 J-	0.3 J+	0.4 J+	32.5	20.8	27.8	38	41.1 447 J	289 J	339 J-		
hallium	1 / -		1.32	40.9	42.6	33.2		350 J	614 J	899 J	44/J	2077			
/anadium	-		122.7 4500	1500 J	444 J	1990 J	651 J	3303							

								UASE037	UASE039	UASE040	UASE041	UASE042	UASE043
imple ID:	Superfund Chemical Data Matrix (SCDM)	Superfund Chemical Data Matrix (SCDM)		UASE030 Lower Ross Basin Drainage upstream of Grand Mogul Mine	UASE034 Animas River upstream of the confluence with Mineral Creek	UASE035 Cement Creek downstream of the Kendrick-Gelder Smelter	UASE036 Cement Creek upstream of the Kendrick-Gelder Smelter	Cement Creek	Cement Creek upstream of the confluence with Illinois Gulch drainage and downstream of Ohio Gulch drainage	Ohio Gulch drainage	Cement Creek upstream of the confluence with Ohio Gulch drainage	Cement Creek downstream of the Anglo Saxon Mine drainage	Anglo Saxon Mine drainag
		CRSC	MCL/MCLG	(Background)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ocation:	RDSC	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)				5240	8220	5710	5060
	(mg/kg)	(mg/kg)				5900	7040	4890	5540	1,3 UJ	1.5 UJ	1.9 UJ	2.5 UJ
nalytes	(a) (b) (a) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	- /	47100	15700	11600	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	54.8 J	34.3 J	37.2 J	36.3 J
luminum		-/	-	1.2 U	1.7 UJ	41.7 J	35.3 J	57 J	34 J	582 J 🖈 🧎	121 J	258 J	
ntimony		1	94.5	31.5 J+	13.3 J	424 J ☆ X	342 J 🖈 🜌	317 J☆	4223 4	0.64 U	0.74 U	0.93 U	10.3 J+ ☆ 🔏
senic	-	1	282.6	94.2 J+	123 J	0.78 U	0.68 U	0.82 U	0.71 U	2.6 J	0.51	0.93 U	4.1 J
rium	-	\ \ .	4.2	1.4 J+	0.87 U	0.83 J	1.4 J	0.82 U	0.71 U	644 U	1040	1040	4130
eryllium	•	1	31.2	10.4 J	0.87 U	934	1040	822 U	735	4.5	6.6	8.4	2.5 U
admium	-	V \-	5970	1990	1810	5.2	5.7	4.8	5.9	4.J	5.5 J	4.4 J	17 J
alcium	-	A - \-	24	8	4.7	3.8 J	4.8 J	3.6 J	3.1 J	40.4 J	55.2 J	59.7 J	110 J
nromium		1	61.5	20.5	5.4 J	42.7 J	98.6 J	41.8 J	29.8 J	44400	94600	123000	860000 ☆ 🏏
obalt			3720	1240 J+	91.4 J	71700	62200	88900	56500	598	334	417	255
opper	-/	_	213600	71200	44300	394	306	541.	361	2570	4550	2360	1240 U
on	-/	- \	4440	1480 J	366		3760	2180	2810	304	831	636	2410
ead	-/	-	34500	11500	6090	2440	580	436	311	3.3 J	3.9 J	3.6 J	3.3 J
agnesium	<i>F</i>		19800	6600	1440	421	3.4 J	3.2 J	2.8 J	1230 J+	1060 J+	1410 J+	1240 U
langanese	1-	-	35.1	11.7 J	3.9 J	3.1 J	1090 J+	1200 J+	1270 J+	2 J	0.81 J	2.1 J	0.21 J
lickel	1 / -	<u> </u>	1926	642 J+	865 U	1300 J+	1 1 1	1.4 J	1.3 J		1 4 7 .	2.2 J+	1.2 U
otassium	/ -	-	1920	3 U	0.51 J	1.5 J	1.4 J+	2.1 J+	1.9 J+	3.0 - 7	741 U	926 U	1240 U
elenium	/ -		3.6	1.2 J	1.2 J+	2.4 J+	676 U	822 U	714 U	644 U	0.74 U	0.99 J+	1.2 U
ilver			1800	600 UJ	865 U	781 U	0.68 U	0.82 U	0.71 U	0.64 U	49.9	71.7	13.4
odium	•		1.32	0.44 J-	0.87 U	0.78 U	42.3	48.6	34.6	36.4	186 J	225 J	. 2470 J
Thallium	•		122.7	40.9	25.8	40.7	360 J	153 J	136 J	604 J	100 3		
Vanadium			4500	1500 J	241 J	197 J	3003						

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TABLE 3 Sediment Results

Continued

Sample ID:				UASE030	UASE044	UASE045	UASE046	UASE047	UASE049	UASE050	UASE054	UASE056	UASE058	UASE059
Location:	Superfund Chemical Data Matrix (SCDM)	Superfund Chemical Data Matrix (SCDM)	1	Lower Ross Basin Drainage upstream of Grand Mogul Mine	Cement Creek upstream of the Anglo Saxon Mine and downstream of Minnesota Gulch drainage	Minnesota Gulch drainage	Cement Creek upstream of the confluence with Minnesota Gulch drainage	Cement Creek downstream of the Elk Tunnel and Fairview Gulch	Cement Creek upstream of the confluence with Fairview Gulch and the Elk Tunnel discharge and downstream of Georgia Gulch	Cement Creek upstream of Georgia Gulch and downstream of the Mammoth Tunnel	Prospect Gulch drainage	Coment Creek downstream of the Dry Gulch drainage	Cement Creek upstream of the confluence with Dry Gulch drainage	Cement Creek at the toe of Grand Mogul Mine
Analytes	RDSC (mg/kg)	CRSC (mg/kg)	MCL/MCLG (mg/kg)	(Background) (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Aluminum	-	- /	47100	15700	8860	10400	5070	6160	7840	6640	3730	6730	5750	986
Antimony	-	- /		1.2 U	1.3 UJ	1.4 UJ	3.8 UJ	1.6 UJ	1.3 UJ	1.6 UJ	1.3 UJ	2.2 UJ	2.7 UJ	23.3 J X /
Arsenic		1 - /	94.5	31.5 J+	34 J	46.9 J	[15J th]	24.3 J	37.7 J	34.7 J	58.9 J	20.3 J	35.6 J	(969 J+ \$\frac{1}{2}\)
Barium		1./	282.6	94.2 J+	191 J	314 J ☆	80.61	226 J	95.5 J	250 J	144	142	85.9	37.1J+
Beryllium	-	\-/	4.2	1.4 J+	0.66 U	0.96 J+	1.9 U	0.78 U	0.64 U	0.81 U	0.63 UJ	1.1 UJ	1.4 UJ	3 UJ
Cadmium	-	X	31.2	10.4 J	2 J	0.68 U	1.9 U	0.78 U	17.5 J	2.7 J	0.77 J	1.1 UJ	2.7 J	3 UJ
Calcium		/-\	5970	1990	2020	1350	1900 U	867	1120	1050	627 U	1100 U	1370 U	2980 U
Chromium		/- \	24	8	7	7.8	6.2	6.9	7.9	9.9	4.8 J	6.4 J	8 J	11.3
Cobalt		/ - \	61.5	20.5	5.5 J	14.8 J	2.1 J	2.9 J	9.3 J	6.4 J	4	3.2	4.7	3 UJ
Copper		7 - \	3720	1240 J+	76.4 J	77.1 J	112 J	47.8 J	159 J	60 J	64.9 J	80.7 J	212 J	235 J+
Iron	<u> </u>	/ - V	213600	71200	67200	37000	341000 ☆ ❤	57100	33000	81600	53500	144000	266000 ☆ ✔	273000 ☆ ≥
Lead	- /	- 1	4440	1480 J	361	342	1700	304	847	346	254	875	2050	1100 J
Magnesium	- /	-	34500	11500	5080	3850	2130	2360	6800	3090	2030	2820	2370	2980 U
Manganese	- /	-	19800	6600	804	1560	540	407	1200	1380	406 J	659 J	1300 J	304
Nickel	/	-	35.1	11.7 J	3.6 J	7.5 J	2.3 J	2.8 J	7.1 J	4.7 J	1.9 J	2.9 J	2.5 J	3 UJ
Potassium	-/		1926	642 J+	933 J+	1310 J+	1900 U	1350 J+	636 U	1230 J+	627 U	1250 J+	1370 U	2980 U
Selenium			1.	3 U	1.1 J	1.1 J	0.63 J	2 J	0.92 J	2	3.1 UJ	5.5 UJ	6.9 UJ	15 U
Silver	-/-	4 N. W.	3\6	1.2 J	1.4 J+	1.5 J+	4.1-J+ # >	1.9 J+	2.9 J+	1.7 J+	0.95 J	2.3 J	5 J ☆ **	13.2 J ☆ 🏖
Sodium		-	1800	600 UJ	657 U	684 U	1900 U	782 U	636 U	813 U	627 U	1100 U	1370 U	2980 UJ ☆
Thallium			1.32	0.44 J-	0.66 U	0.75 J+	1.9 U	0.8 J+	0.64 U	0.9 J+	0.63 UJ	1.1 UJ	1.4 UJ	0.19 J-
Vanadium	N/ -	-	122.7	40.9	45.2	48.6	96.9	56.3	65.9	72.2	36.5	62	37.2	57.1
Zinc			4500	1500 J	478 J	144 J	177 J	131 J	4910 J ☆ 🔉	693 J	192 J-	206 J-	628 J	524 J

The associated numerical value is an estimated quantity because quality control criteria were not met. Presence of the element is reliable. The analyte was not detected at or above the CRDL.

U UJ J-D

The analyte was not detected at or above the CRDL.

The reported quantitation limt is estimated because Quality Control criteria were not met. Element may not be present the sample. The associated numerical value is an estimated quantity but the result may be biased low.

The analyte was identified in a sample at a secondary dilution factor. The analyte was detected at three times greater than the background concentration.

The analyte was detected at three times greater than the background concentration.

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	1000					Wash	114_Sour	ce Soil								
Field Sample ID:	A Sorpel	athory *	UASO001	UASO002	UASO003	UASO004	UASO005	UASO006	UASO007	UASO008	UASO009	UASO010	UASO011	UASO012	UASO013	UASO014
Location:	Superfund Chemidal Data Matrix (SCDM) Reference Dose	Superfund Chemical Data	American Tunnel	American Tunnel	Red and Bonita Mine – top pile	Red and Bonita Mine - middle pile	Red and Bonita Mine - bottom pile	Mogul North Mine waste pile	Grand Mogul stope- west side	- Grand Mogul stope east side	- Grand Mogul Mine waste piles - east side	The second secon	Grand Mogul Mine waste piles – west side	Mogul Mine waste piles – west side	Mogul Mine waste piles – adjacent to shed	Mogul Mine waste piles – east side
Analytes	Some (mg/kg) OR RASC	(mg/kg) CRSC	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminum	and define be	CON	13900	12900	8780	1470	2260	1130	1450	2020	11200	665	13000	906	3270	19500
Antimony	31		1.3 UJ	1.2 UJ	1.8 J	1.3 U	12 J	13.5 J	11.7 J	. 1.1 U	1.1 U	12.2 J	1.1 U	1.1 U	3.6 J	1.2 U
Arsenic	23	0.43	23.7 J	13.5 J	9.1 J+	15.7 J+	29.3 J+	34.9 J+	38.6 J+	90.2 J+	96.8 J+	55.2 J+	32.8 J+	13.6 J+	37.7 J+	31.9 J+
Barium .	5,500		117	113	105 J+	18.7 J+	68.3 J+	83.8 J+	97.2 J+	72.1 J+	34.9 J+	81.3 J+	46.1 J+	37.1 J+	68.4 J+	154 J+
Beryllium	160		0.64 UJ	0.6 UJ	0.6 UJ	0.65 UJ	0.78 UJ	0.56 UJ	0.55 UJ	0.57 UJ	0.55 UJ	0.54 UJ	0.54 UJ	0.55 UJ	0.55 UJ	0.79 J+
Cadmium	39		9.6 J	0.6 UJ	0.63 J	0.65 UJ	35.4 J	5 J	7.6 J	1.1 J	0.55 UJ	40 J	0.7 J	0.55 UJ	9.1	3.7 J
Calcium			5910	2080	1780	648 U	775 U	563 U	551 U	807	1360	535 U	2030	554 U	547 U	1540
Chromium	230		8.4 J	10 J	4.9	1.8	2.2	1.3	1.1 U	2,3	11.9	1.1 U	10	1.1 U	2.7	9.9
Cobalt			8	6.8	1.3	1	0.78 U	0.56 U	0.55 U	0.88	5.5	0.54 U	4.6	0.55 U	1.5	21.4
Copper			244 J	40.6 J	195 J+	104 J+	286 J+	211 J+	471 J+	111 J+	47.1 J+	4600 J+	33.1 J+	63.1 J+	285 J+	162 J+
Iron		TA SE	47800	36900	102000	150000	308000	8170	16900	21500	36000	22200	25200	7700	46300	55900
Lead			1820	241	6440 J	1850 J	5080 J	3880 J	4920 J	4510 J	1030 J	15500 J	2260 J	1050 J	3170 J	1070 J
Magnesium			11200	10700	5600	648 U	775 U	563 U	551 U	950	11100	535 U	12700	554 U	1920	9940
Manganese	11,000		1180 J	796 J	452	630	136	423	122	852	1620	177	3280	135	433	5570
Manganese Nickel	1600		5.8 J	6.6 J	2.3 J	1.3 J	0.78 UJ	0.56 UJ	0.55 UJ	0.74 J	5.3 J	0.54 UJ	5.3 J	0.55 UJ	1.4 J	9.5 J
Potassium			1070 J+	1030 J+	790 J	648 U	775 U	714 J+	1240 J+	1460 J+	872 J+	1200 J+	671 J+	961 J+	769 J+	1090 J+
Selenium	390		3.2 UJ	3 UJ	3 U	3.2 U	3.9 U	2.8 U	2.8 U	2.8 U	2.8 U	3.4	2.7 U	2.8 U	2.7 U	3 U
Silver	390		5.4 J	1.3 J	103 J	10.4 J	27.5 J	34.6 J	54 J	8.4 J	5.7 J	113 J	4.6 J	6.9 J	22.9 J	2.7 J
Sodium			640 U	605 U	604 UJ	648 U	775 U	563 UJ	551 UJ	569 UJ	552 UJ	535 UJ	541 UJ	554 UJ	547 UJ	597 UJ
Thallium		4.4	0.64 UJ	0.6 UJ	0.5	0.23 J-	0.1 J-	0.61	0.85	1.2	0.36 J-	0.73	0.38 J-	0.43 J-	0.37 J-	0.56
Vanadium	550	E a for	53.6	65.3	26	23.7	÷ 49.7	7.8	12	17.5	62.1	7.1	60.8	4.9	15.4	47.5 498 J
Zinc	23,000		2610 J-	102 J-	167 J	265 J	11300 J	1400 J	2100 J	319 J	187 J	10400 J	210 J	140 J	2580 J	498 J

The associated numerical value is an estimated quantity because quality control criteria were not met. Presence of the element is reliable

U The analyte was not detected at or above the CRDL.

The reported quantitation limt is estimated because Quality Control criteria were not met. Element may not be present the sample.

The associated numerical value is an estimated quantity but the result may be biased lo

The associated numerical value is an estimated quantity but the result may be biased high

The associated numerical value was detected below the CRDL, but greater than the method detection limit and is therefore an estimate (qualified by laboratory).

define seronyms, e.g. scor URSC mg/rg

* for comparison only

blaske file samples contain AI As, Ba, Cd, Ca, Co, Co, Cu Fe, Pb, Mg, Mn, Ni, K, Ag, 4th, V, Zu